

Appendix Test Data

Report No.:	18220WC20228601	Test Sample No.:	1-2-2
Start Test Date:	2022.9.23	Finish Test Date:	2022.9.30
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.957	2401.550	2402.507
		2441	0.951	2440.553	2441.504
		2480	0.960	2479.547	2480.507
2DH5	Ant1	2402	1.281	2401.382	2402.663
		2441	1.284	2440.382	2441.666
		2480	1.344	2479.340	2480.684



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.86584	2401.5710	2402.4369
		2441	0.86987	2440.5694	2441.4393
		2480	0.86946	2479.5722	2480.4417
2DH5	Ant1	2402	1.1920	2401.4123	2402.6043
		2441	1.1850	2440.4137	2441.5987
		2480	1.1956	2479.4116	2480.6072

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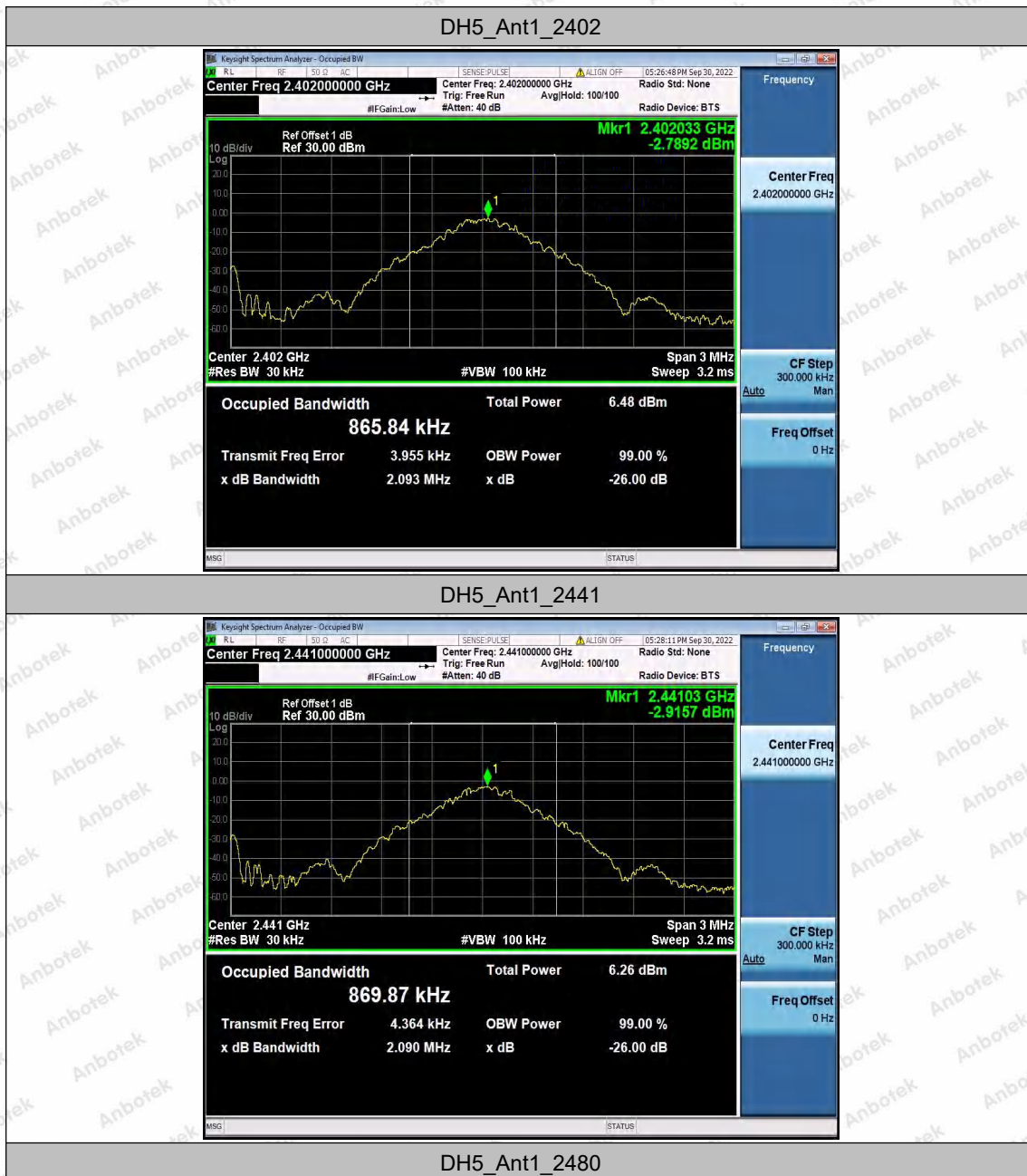
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Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.24	≤30	PASS
		2441	0.07	≤30	PASS
		2480	-0.04	≤30	PASS
2DH5	Ant1	2402	1	≤20.97	PASS
		2441	0.84	≤20.97	PASS
		2480	0.72	≤20.97	PASS



Test Graphs



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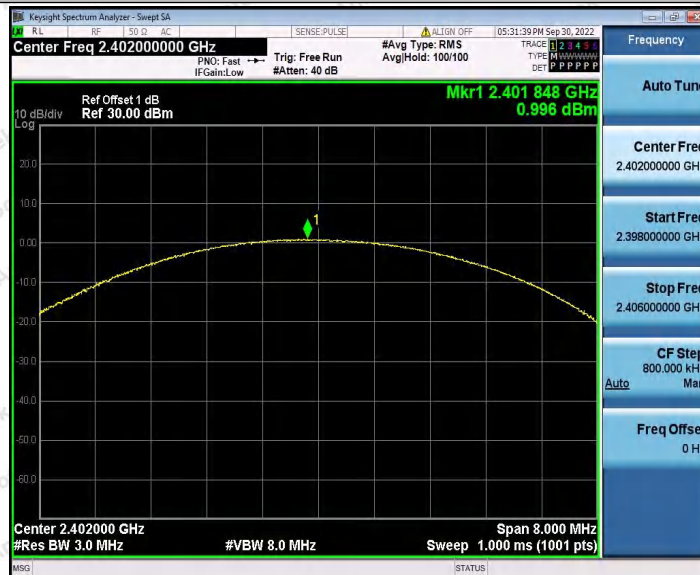


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2DH5_Ant1_2402



2DH5_Ant1_2441



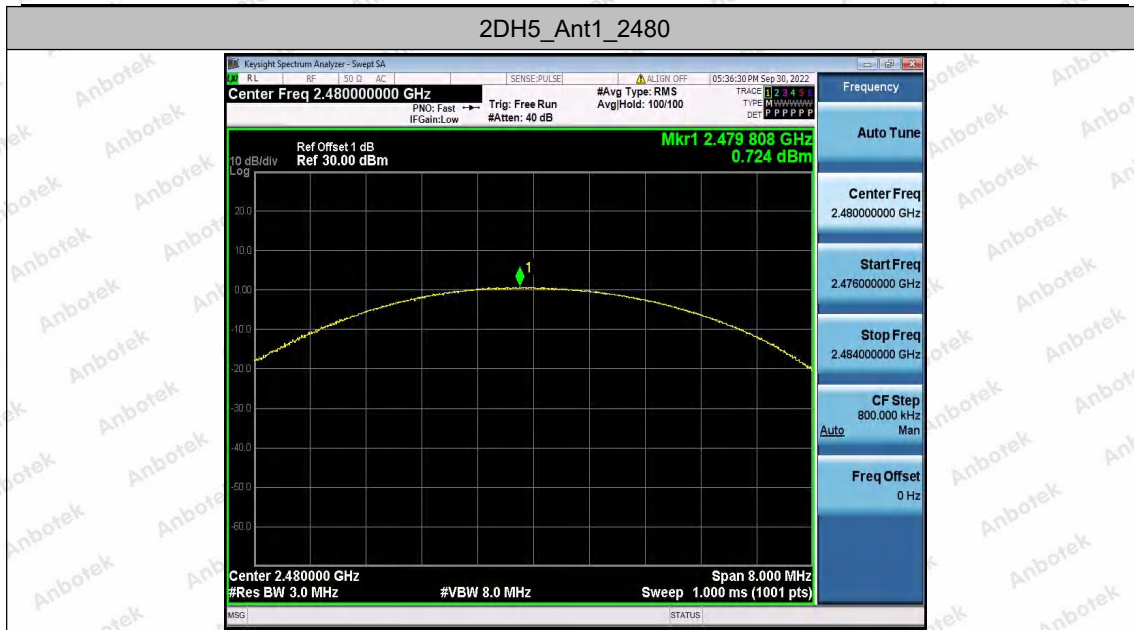
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥0.960	PASS
2DH5	Ant1	Hop	1.172	≥0.896	PASS



Test Graphs



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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	318	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.625	163	0.265	≤0.4	PASS
DH5	Ant1	Hop	2.874	124	0.356	≤0.4	PASS
2DH1	Ant1	Hop	0.379	317	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.631	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.879	96	0.276	≤0.4	PASS

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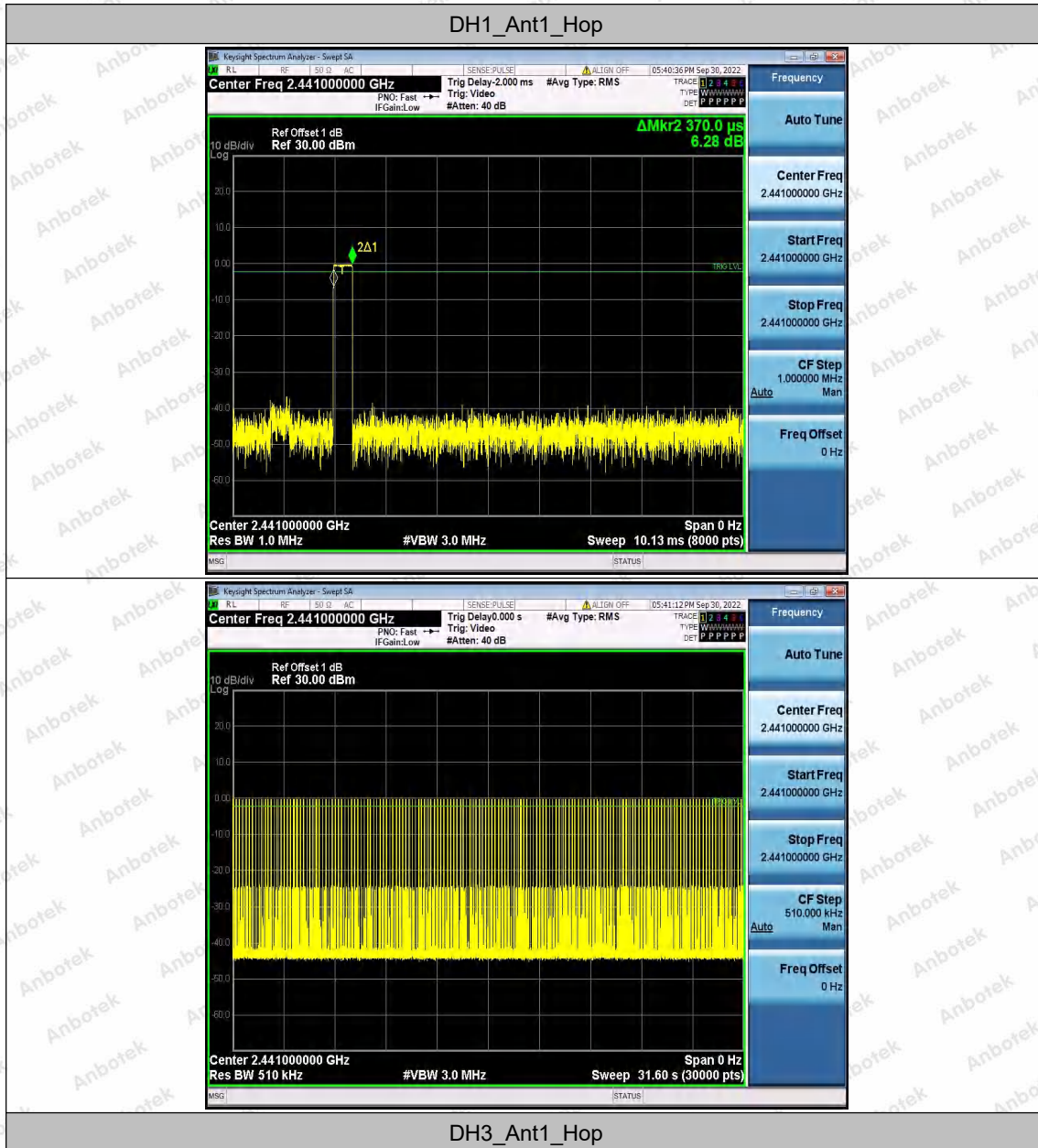
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Test Graphs



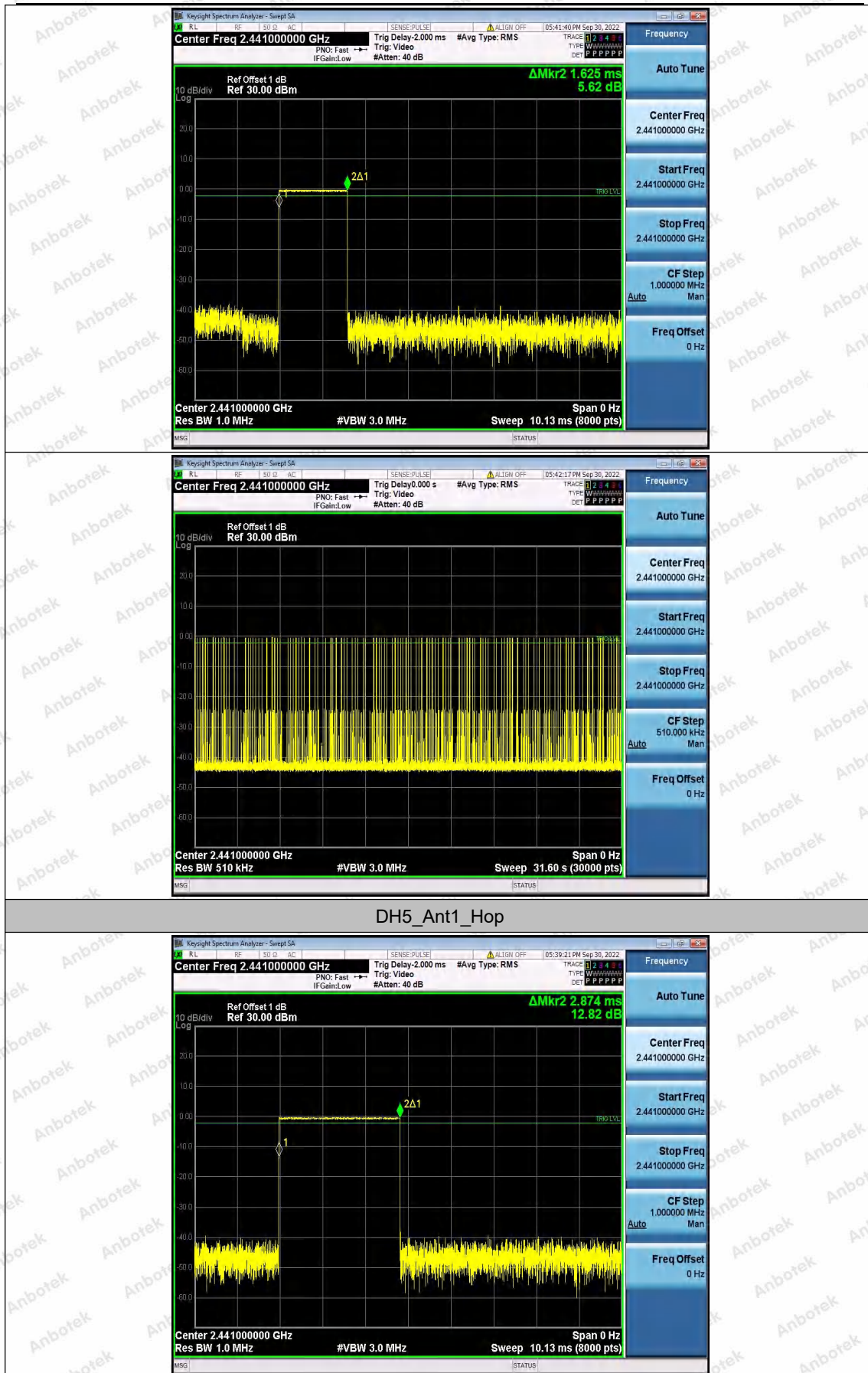
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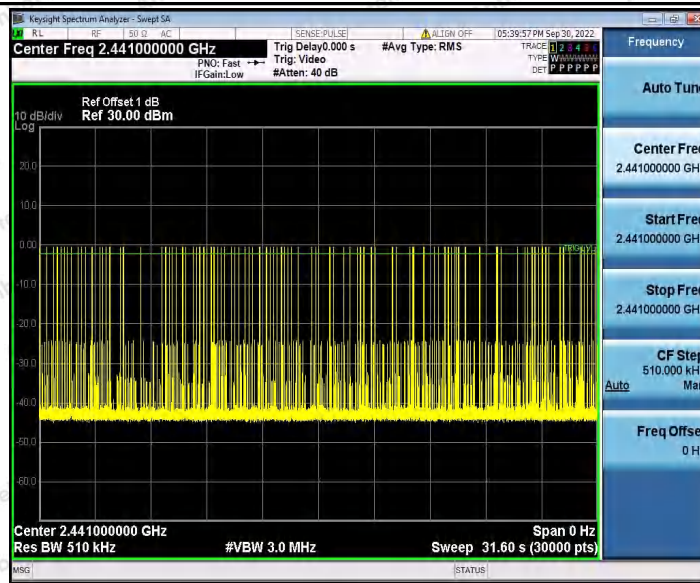
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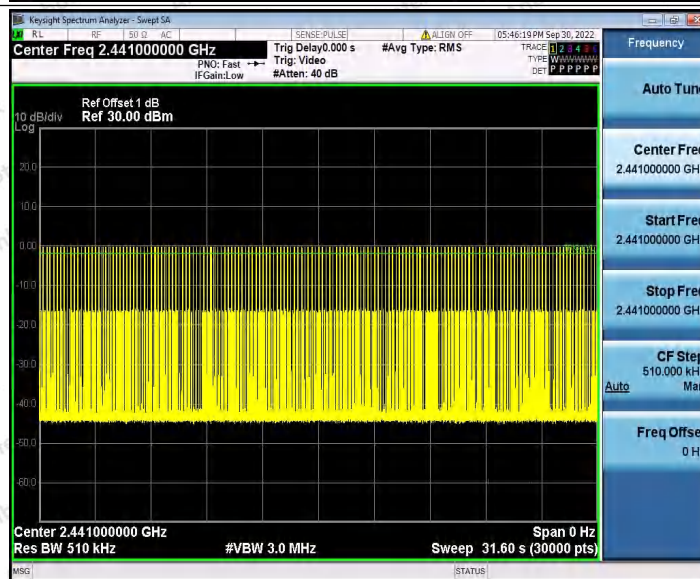
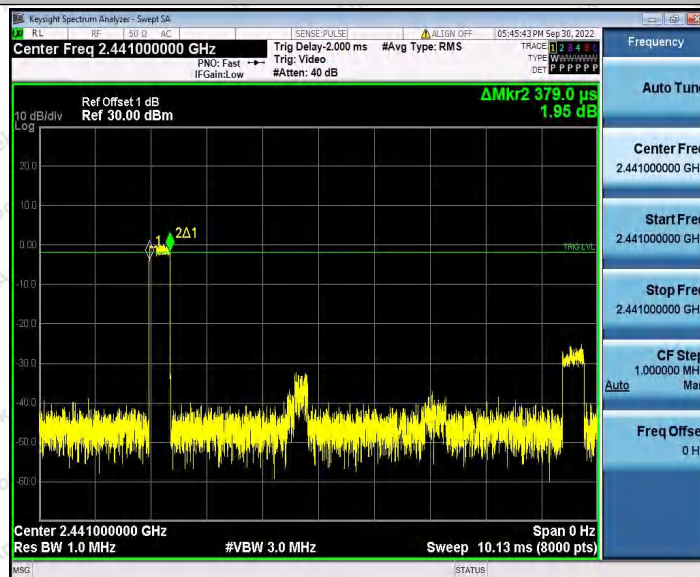


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

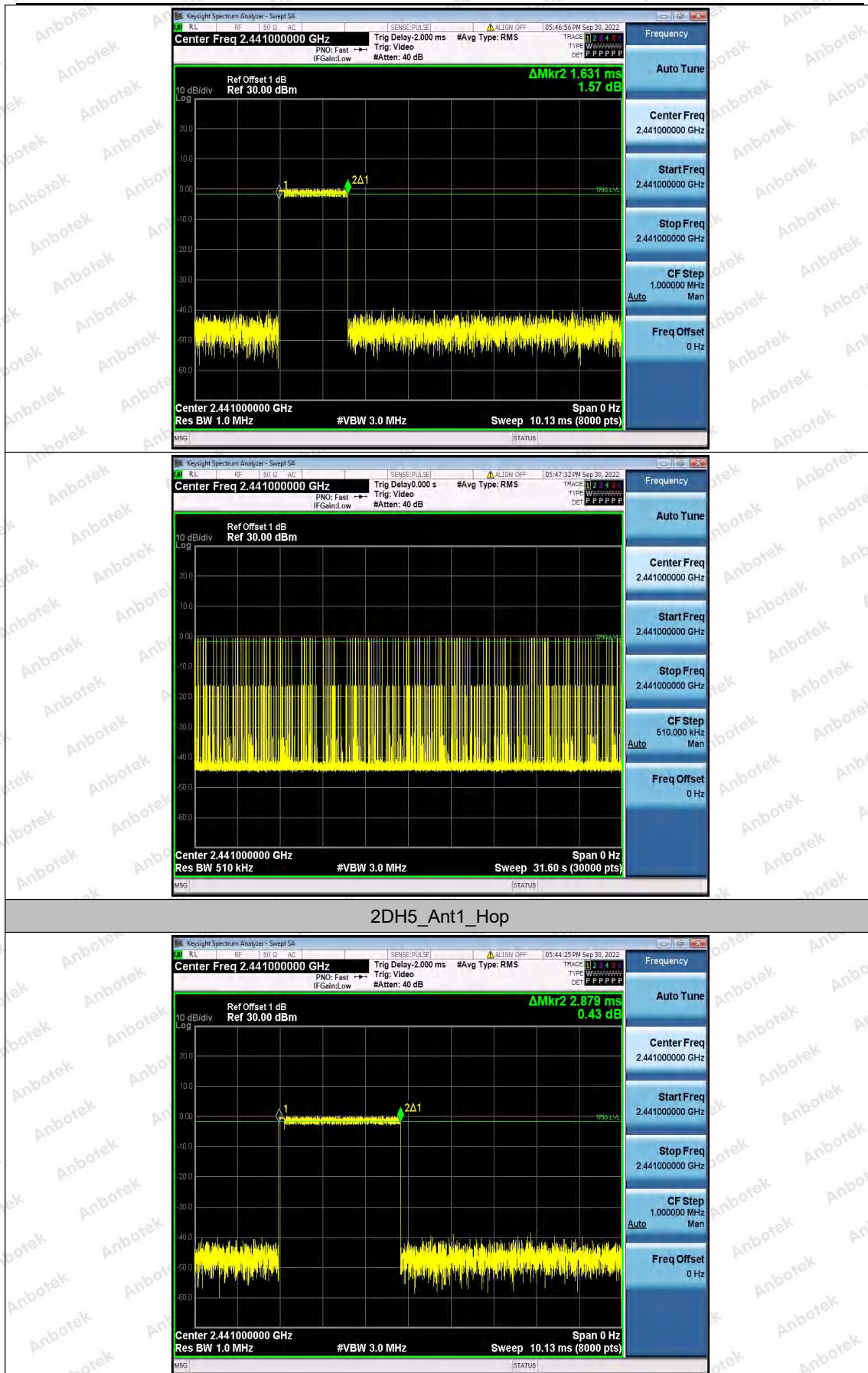
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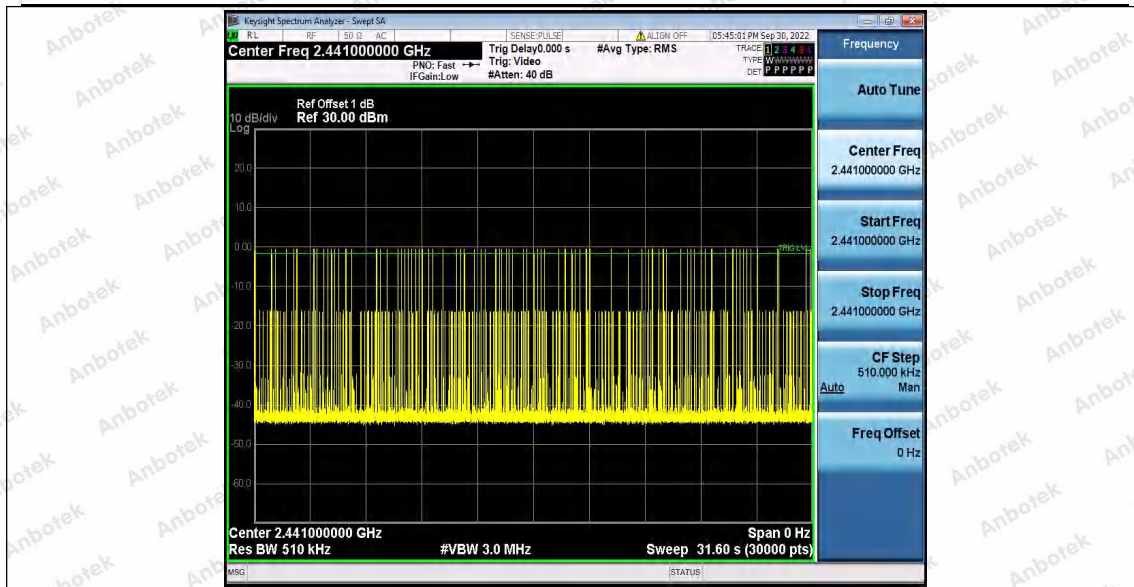
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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

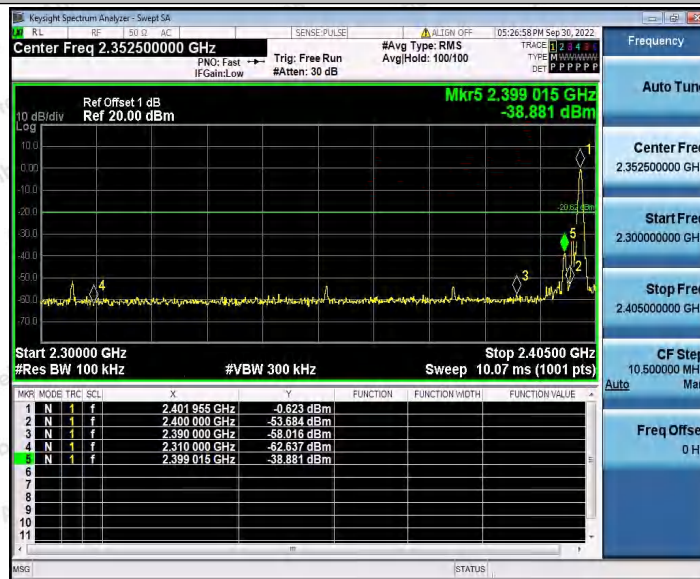
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.62	-38.88	≤-20.62	PASS
		High	2480	-0.59	-53.13	≤-20.59	PASS
		Low	Hop_2402	-0.75	-48.84	≤-20.75	PASS
		High	Hop_2480	-0.65	-48.26	≤-20.65	PASS
2DH5	Ant1	Low	2402	-0.21	-41.9	≤-20.21	PASS
		High	2480	-1.11	-53.46	≤-21.11	PASS
		Low	Hop_2402	-0.27	-50.79	≤-20.27	PASS
		High	Hop_2480	-0.99	-50.87	≤-20.99	PASS

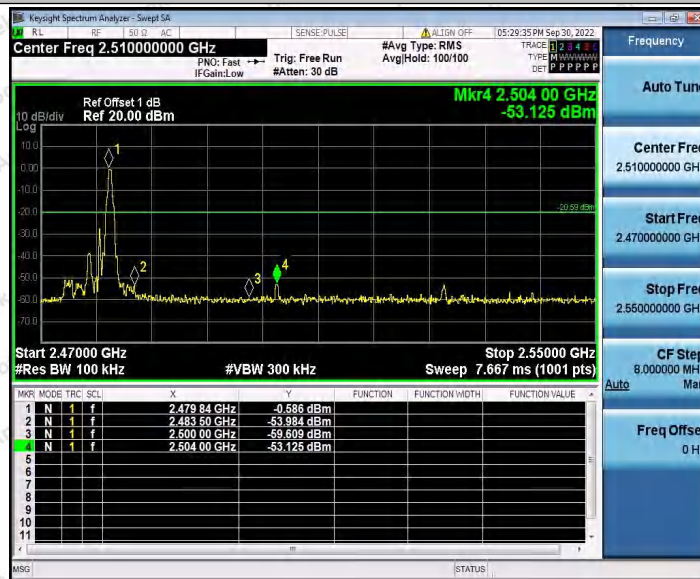


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

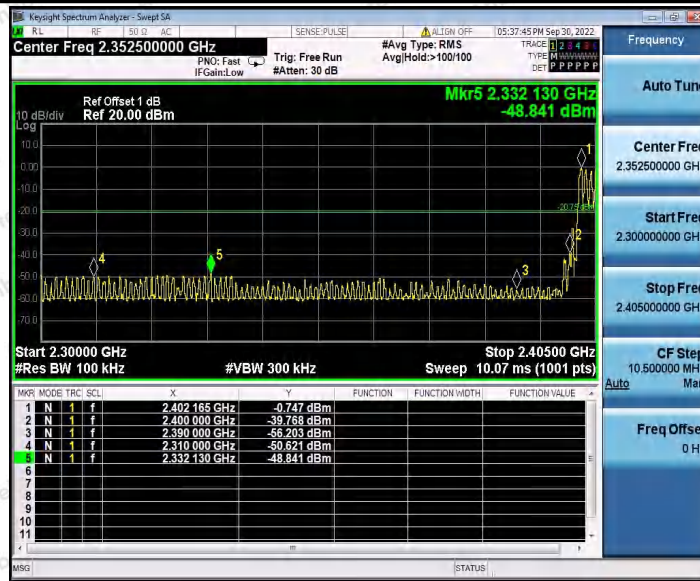
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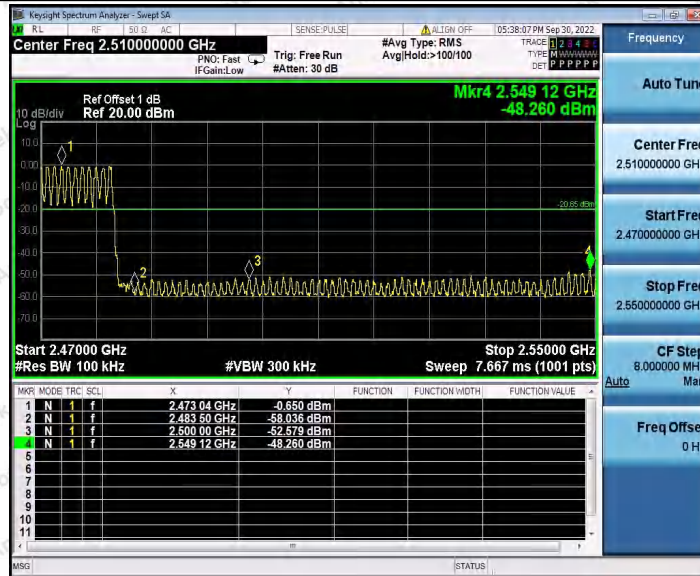


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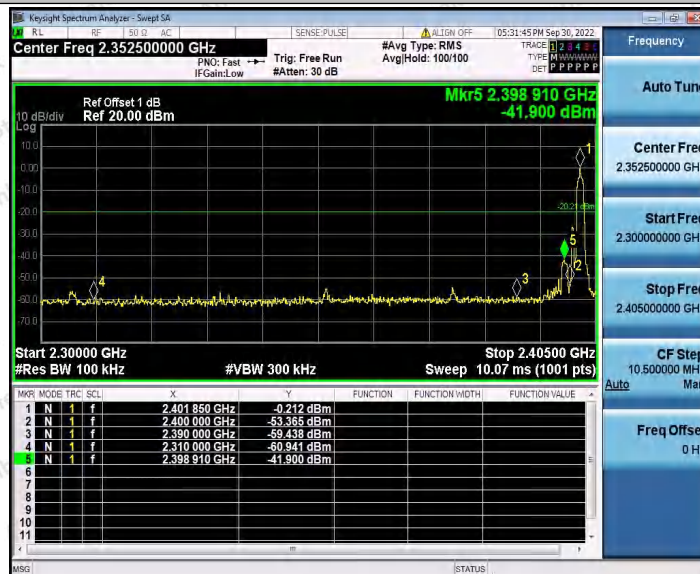




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



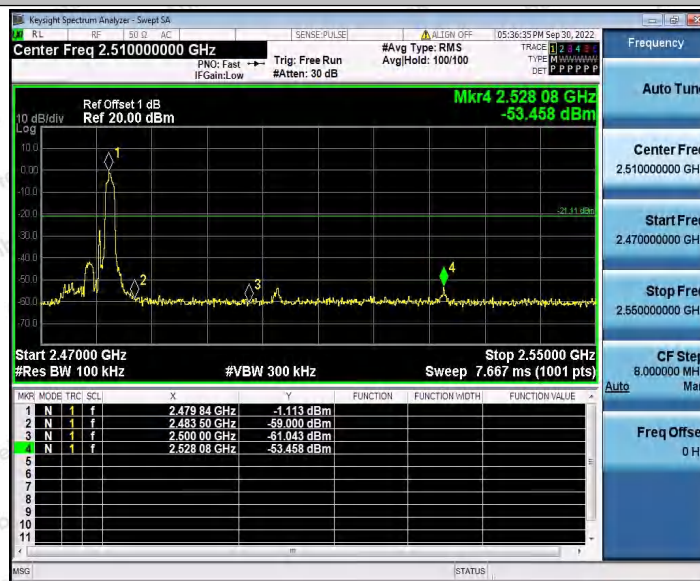
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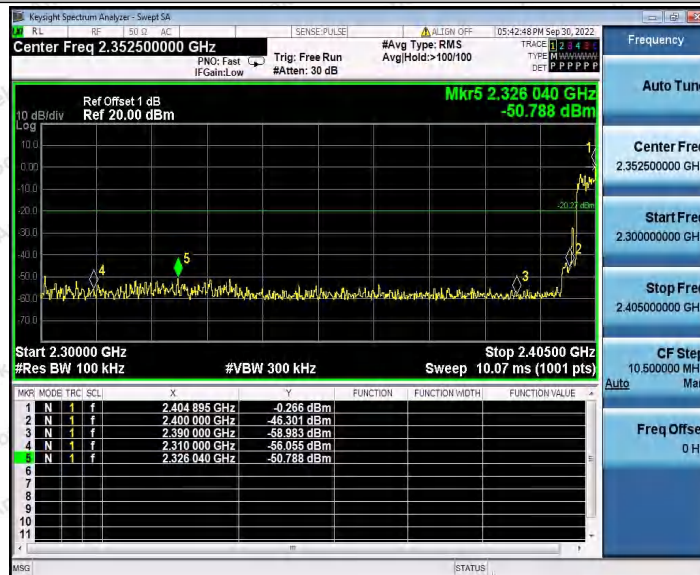
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

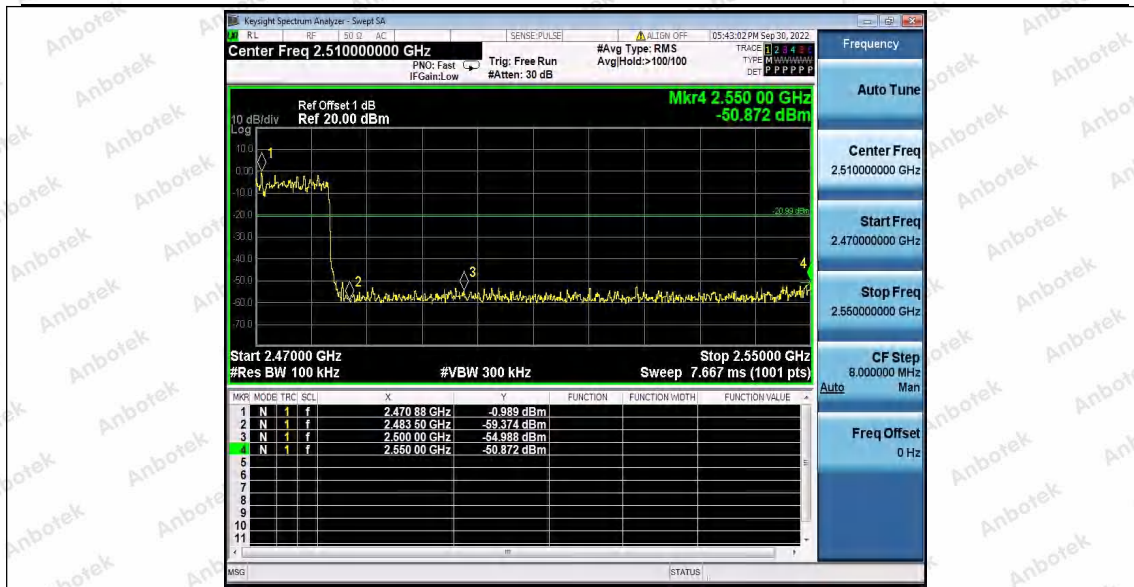
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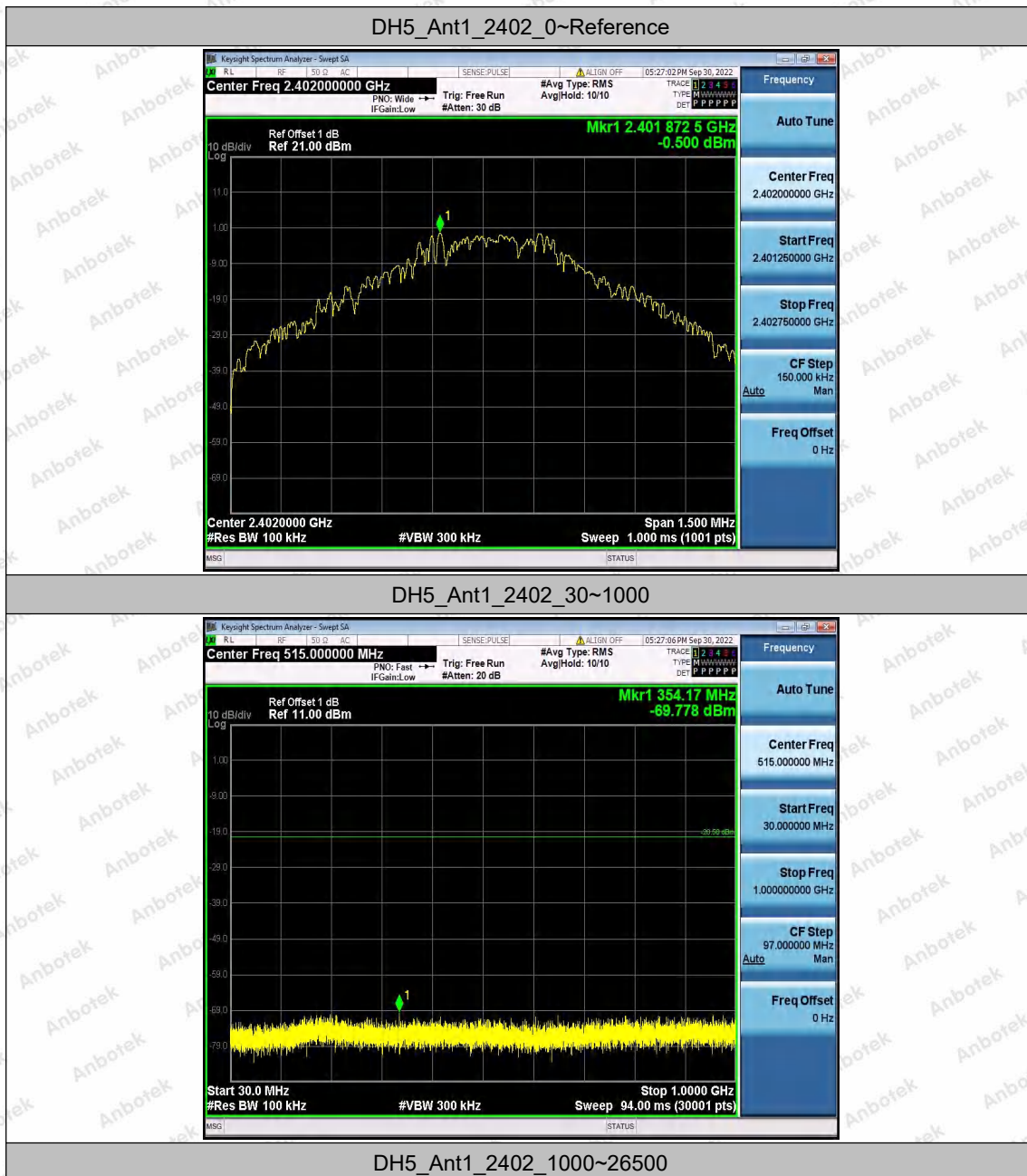
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.50	-0.50	---	PASS
			30~1000	-0.50	-69.78	≤-20.5	PASS
			1000~26500	-0.50	-44.57	≤-20.5	PASS
		2441	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-68.49	≤-21.05	PASS
			1000~26500	-1.05	-44.2	≤-21.05	PASS
		2480	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-68.85	≤-21.31	PASS
			1000~26500	-1.31	-44.89	≤-21.31	PASS
2DH5	Ant1	2402	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-69.63	≤-23.02	PASS
			1000~26500	-3.02	-44.32	≤-23.02	PASS
		2441	Reference	-4.49	-4.49	---	PASS
			30~1000	-4.49	-68.3	≤-24.49	PASS
			1000~26500	-4.49	-44.17	≤-24.49	PASS
		2480	Reference	-4.42	-4.42	---	PASS
			30~1000	-4.42	-69.52	≤-24.42	PASS
			1000~26500	-4.42	-44.7	≤-24.42	PASS



Test Graphs



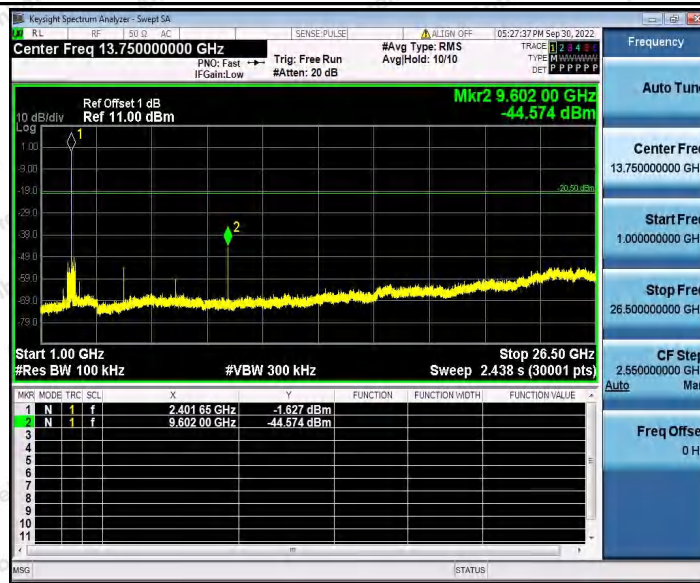
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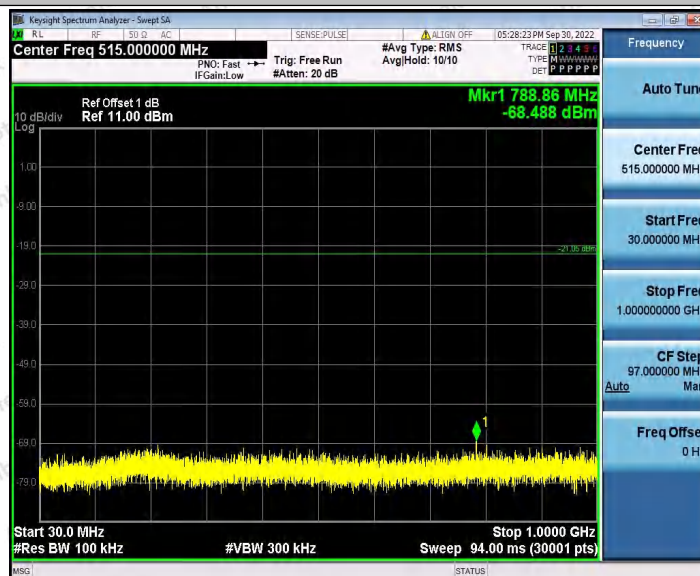




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



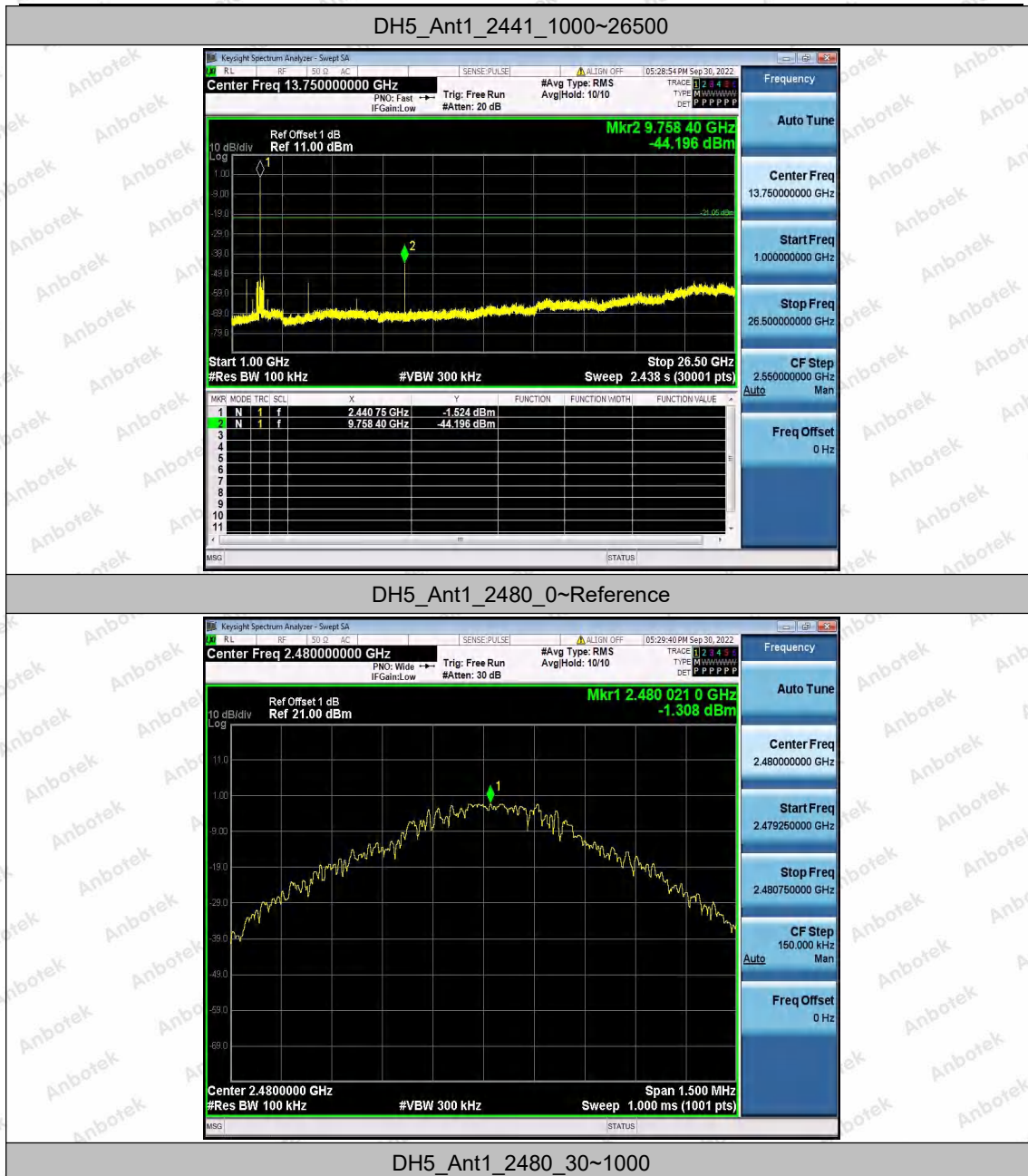
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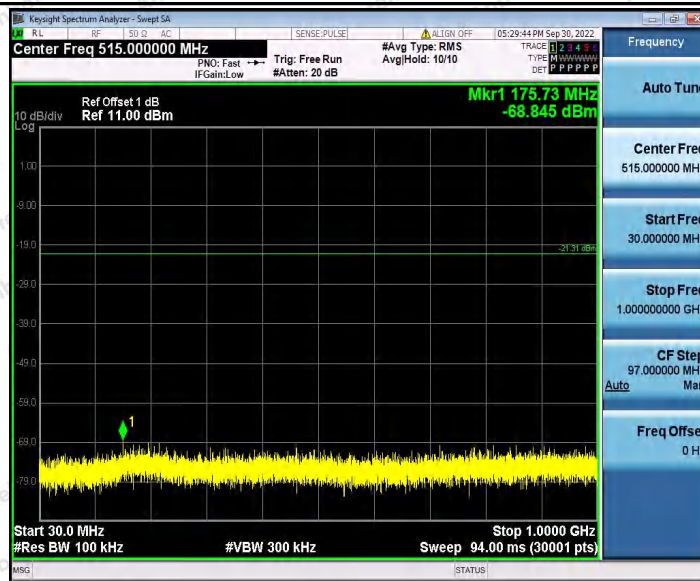
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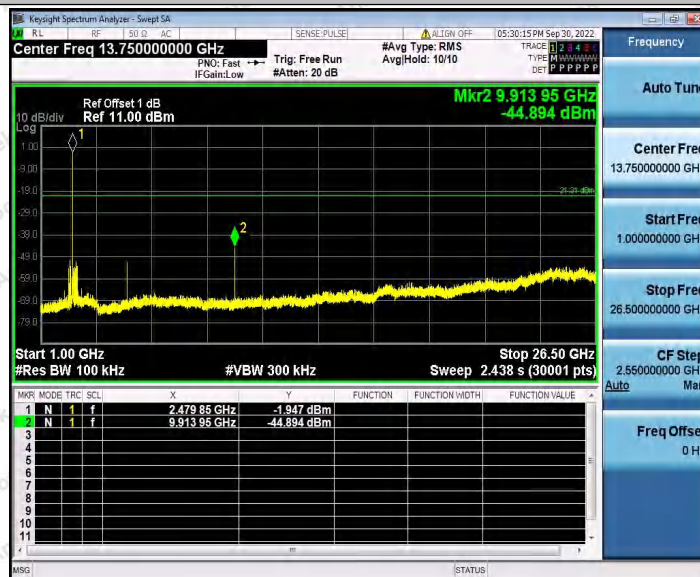
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



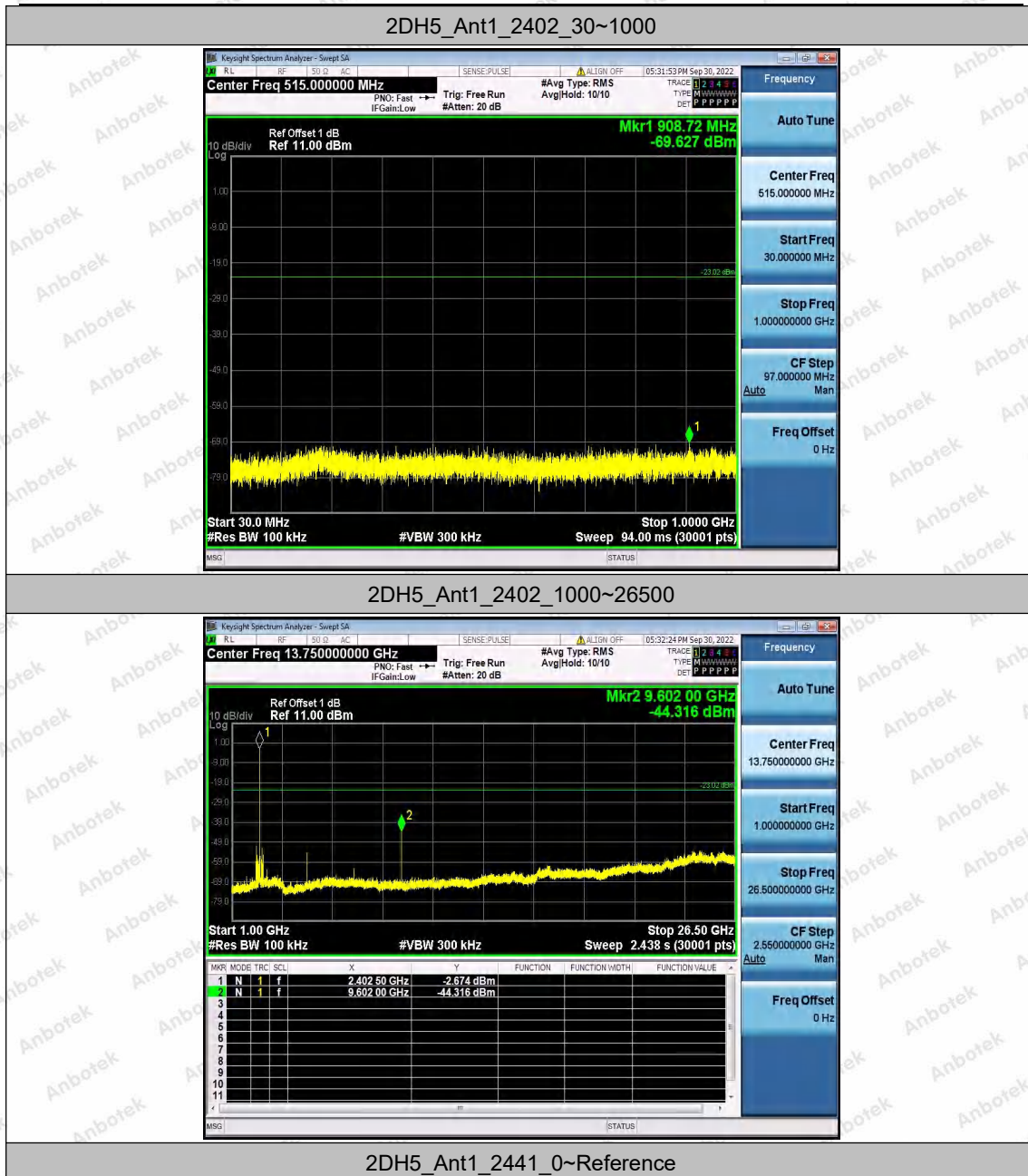
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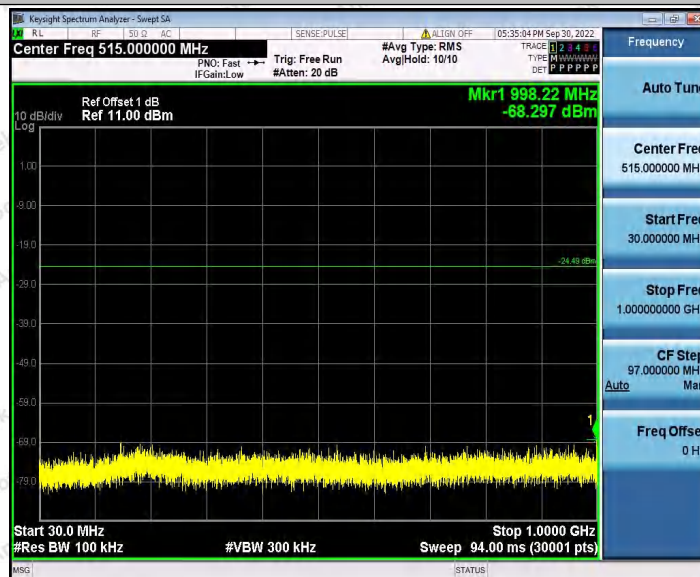


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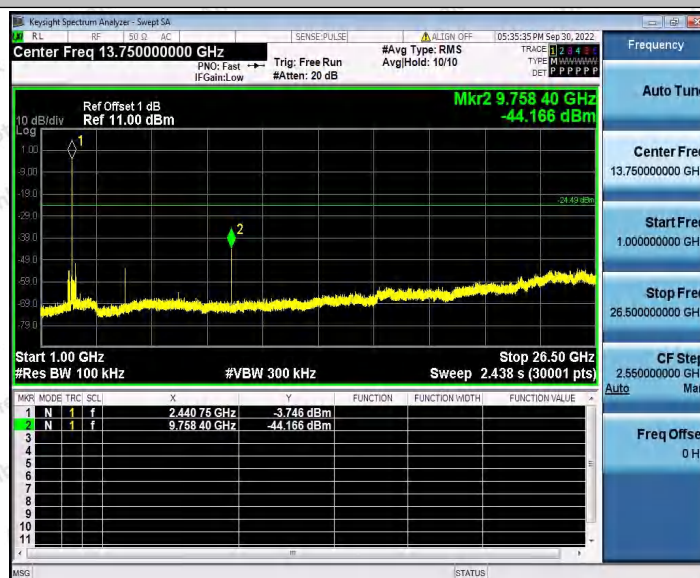




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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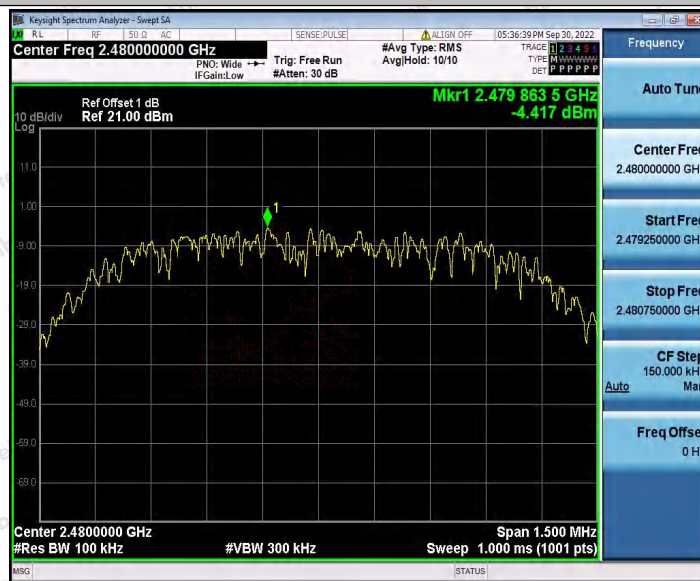
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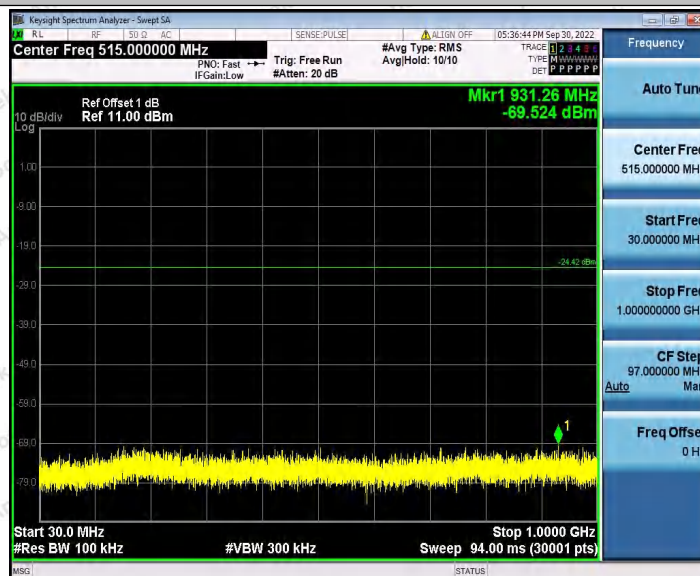
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

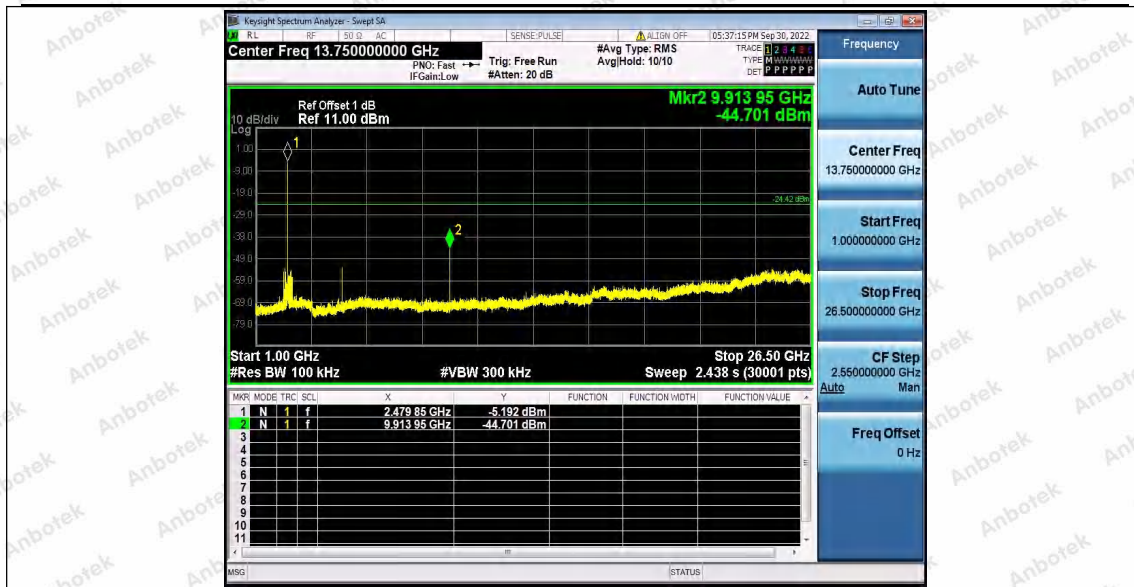
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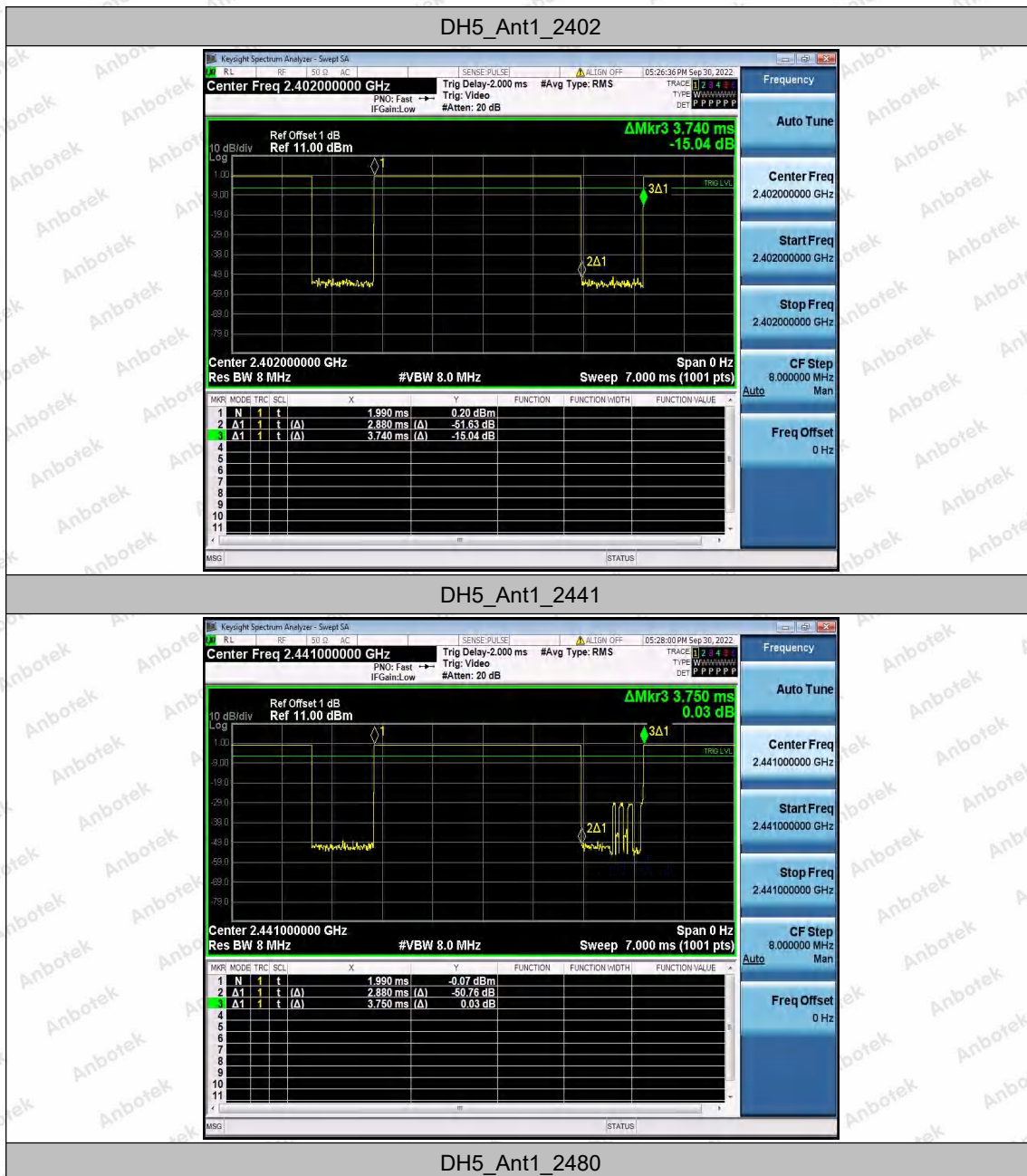
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.74	77.01	1.13
		2441	2.88	3.75	76.80	1.15
		2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.74	77.01	1.13
		2441	2.88	3.76	76.60	1.16
		2480	2.88	3.75	76.80	1.15



Test Graphs



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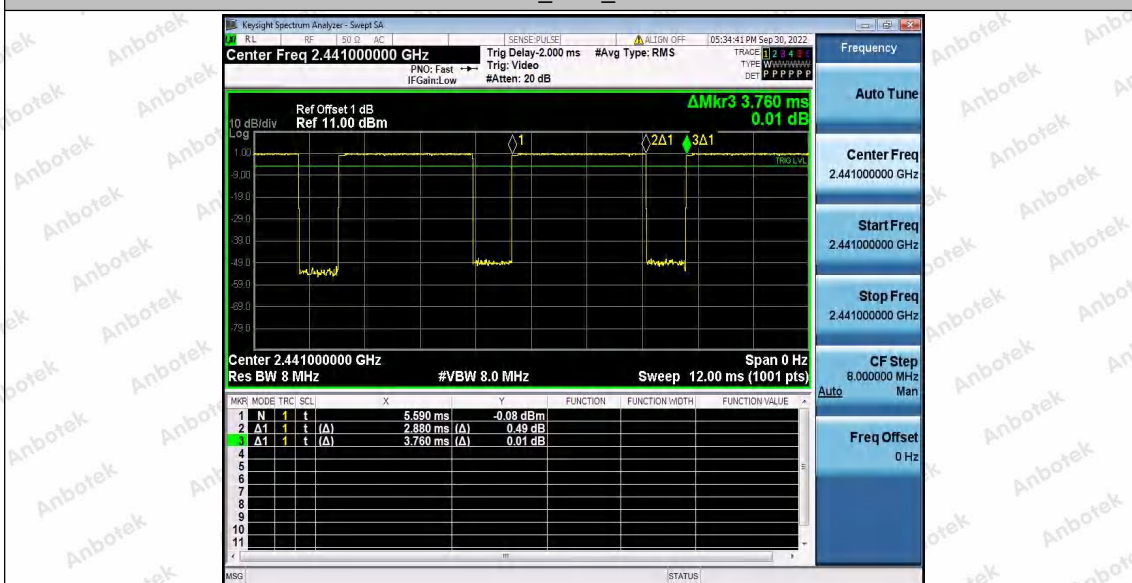




2DH5_Ant1_2402



2DH5_Ant1_2441

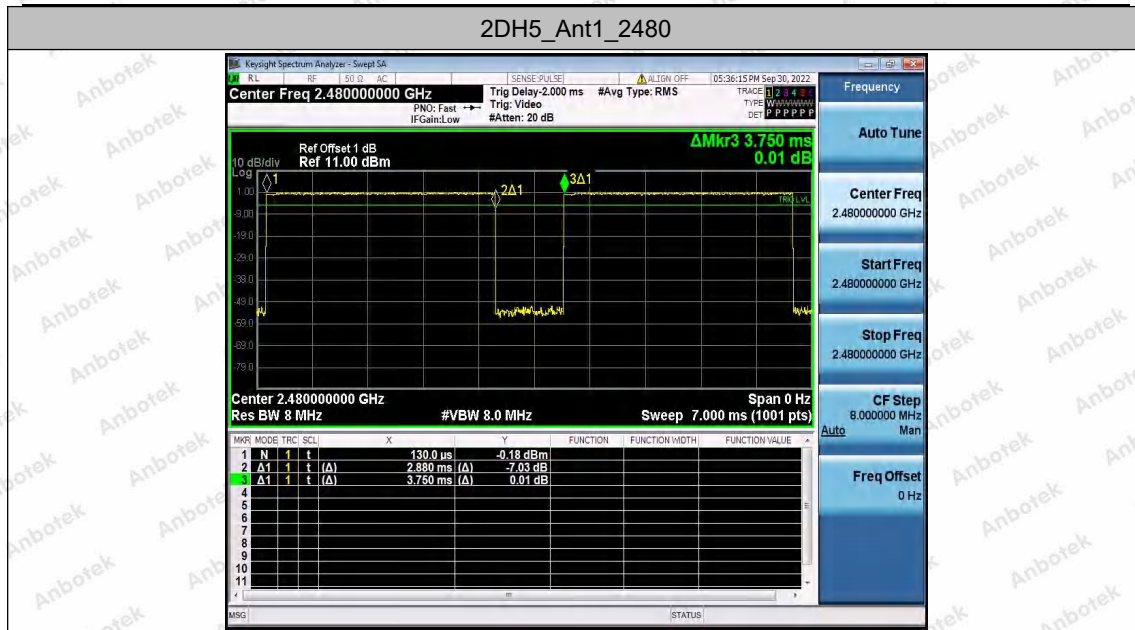


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